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Date | April 11, 2001

UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

awery & conti

SIGNATURE

Title	Performing Gen	Coding Method and System for eral Searching of Vector Quantization d for Coding a Speech Signal				
First Inventor		Juin-Hwey Chen				
Attorney Docket No.		1875.0250003/RES/AJF				
espond to a	a confection of inf	n unless it displays a valid OMB control number.				

	ICATION ELEMENTS 00 concerning utility patent application	on contents.	AD	DRI	Assistant Commissioner for Patents Box Patent Application Washington, DC 20231		
(Submit an original,	al Form (e.g., PTO/SB/17) I, and a duplicate for fee processing) ans small entity status.			 (A) √ucle	D-ROM or CD-R in duplicate, large table or Computer Program oppendix) tide and/or Amino Acid Sequence Submission applicable, all necessary)		
3. Specification (preferred arranger - Descriptive title of - Cross Reference to - Statement Regardi - Reference to seque or a computer prof - Background of the - Brief Summary of	See 37 CFR 1.27. Specification [Total Pages 90] (preferred arrangement set forth below) - Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention	 a. Computer Readable Form (CRF) b. Specification Sequence Listing on: CD-ROM or CD-R (2 copies); or paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS					
- Detailed Descripti - Claim(s) - Abstract of the Dis			9.		Assignment Papers (cover sheet & document(s))		
	5 U.S.C. 113) [Total Sheets	<u>34</u> 1	10.	\boxtimes	37 CFR 3.73(b) Statement (when there is an assignee) ✓ Power of Attorney From Assignee		
		7 1	11.		English Translation Document (if applicable)		
5. Oath or Declaration a. Newly exec	[Total Pages cuted (original or copy)	<u>~</u> '	12.		Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations		
h □ Conv from	a prior application (37 CFR	1.63(d))	13.		Preliminary Amendment		
(for continue	tion/divisional with Box 18 completed) ELETION OF INVENTOR(S) igned statement attached deleting inventor(s) amed in the prior application, see 37 CFR §§	npleted)	14.				
·		ng inventor(s)	15.		(Should be specifically itemized) Certified Copy of Priority Document(s)		
1	1.63(d)(2) and 1.33(b).	ee 37 CFR 99	16.		(if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach		
6. Application Data	a Sheet. See 37 CFR 1.76.				form PTO/SB/35 or its equivalent.		
			17.	⊠ ⊠	Other: Authorization under 37 C.F.R. § 1.136(a)(3) Other: The name of the assignee is: Broadcom Corporation		
18. If a CONTINUING or in an Application Data Si		opriate box, and sup	ply th		isite information below and in a preliminary amendment,		
☐ Continuation	☐ Divisional Conf	tinuation-in-Part (CII	D)	ofn	rior application No: 09/722,077		
Prior application info		`	,	OI p	Group/Art Unit: 2644		
					:		
considered a part of the disc	DIVISIONAL APPS only: The closure of the accompanying cor has been inadvertently omitted	ntinuation or division	ial ap	plicati	lication, from which an oath or declaration is supplied under Box 5b, is on and is hereby incorporated by reference. The incorporation can only arts.		
		19. CORRESPON	NDE	NCE.	ADDRESS /		
☐ Customer Number or B Customer No. 2	26111				or Correspondence address below		
NAME	(Insert C	ustome (60 or 11 a		r, code	label here)		
	Attorneys at Law	FATEINT:TYOUJEMARK OF	FFICE				
ADDRESS							
CITTLE		STATE	I		ZIP CODE		
CITY COUNTRY		TELEPHONE	-		FAX		

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**REGISTERED PATENT AGENT

***SENIOR COUNSEL

April 11, 2001

WRITER'S DIRECT NUMBER: (202) 312-7261 INTERNET ADDRESS: AFASULO@SKGF.COM

Commissioner for Patents Washington, D.C. 20231

Box Patent Application

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

(Continuation-in-Part of Appl. No. 09/722,077; Filed: November 27, 2000)

Appl. No. To be assigned; Filed: HEREWITH

For:

Noise Feedback Coding Method and System for Performing General

Searching of Vector Quantization Codevectors Used for Coding a

Speech Signal

Inventor:

Juin-Hwey Chen

Our Ref:

1875.0250003/RES/AJF

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17) (in duplicate);
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 3. U.S. Utility Patent Application entitled:

Noise Feedback Coding Method and System for Performing General Searching of Vector Quantization Codevectors Used for Coding a Speech Signal Commissioner for Patents April 11, 2001 Page 2

and naming as inventor:

Juin-Hwey Chen

the application consisting of:

- a. A specification containing:
 - i. 82 pages of description prior to the claims;
 - ii. 7 pages of claims (24 claims);
 - iii. a one (1) page abstract;
- b. <u>34</u> sheets of Formal Drawings: (Figures: 1, 1A, 2, 2A, 3-5, 5A, 6, 6A, 6B, 7-12, 13A, 13B, 13C, 13D, 13E, 14A, 14B, 14C, 14D, 14E, 15A, 15B, 16A, 16B, 17-19); and
- c. An original executed Declaration;
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (in duplicate);
- 5. Recordation Form Cover Sheet (PTO-1595);
- An original executed Assignment to <u>Broadcom Corporation</u>, recordation of which is hereby respectfully requested;
- 7. An original executed Power of Attorney from Assignee;
- 8. A Certificate under 37 C.F.R. § 3.73(b) from Assignee with a copy of the Assignment attached;
- 9. Application Data Sheet (37 C.F.R. § 1.76);
- 10. Our Check No. <u>30938</u> for \$822.00 to cover:
 - \$ 710.00 Filing fee for patent application;
 - \$ 72.00 Excess claims fee;
 - \$ 40.00 Assignment recordation fee; and
- 11. Two (2) return postcards.

Commissioner for Patents April 11, 2001 Page 3

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Albert J. Fasulo, II

Attorney for Applicant

Registration No. 43,607

Enclosures

RES/AJF;vrb
P:\USERS\AFASULO\1875\0250003\NewAppl-ptoltr
SKGF Rev. 8/1/00 mac

Certificate Under 37 C.F.R. § 3.73(b)

Applica	ant/Patent Owner: Broadcom Corporation
Applica	ation No./Patent No.: To be assigned Filed/Issue Date: HEREWITH
	l: Noise Feedback Coding Method and System for Performing General Searching of Vector Quantization ectors Used for Coding a Speech Signal
Codeve	ctors Used for Coding a Speech Signal
	Broadcom Corporation , a Corporation (Name of Assignee) , (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states th	nat it is:
1. [X]	the assignee of the entire right, title, and interest, or
2. []	an assignee of an undivided part interest
in the p	atent application/patent identified above by virtue of either:
A. [X]	An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
OR	
B. []	A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:
	1. From: To: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. 2. From: To:
	The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
	3. From: To: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
	[] Additional documents in the chain of title are listed on a supplemental sheet.
[] Cop	ies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]
The und	dersigned (whose title is supplied below) is empowered to act on behalf of the assignee.
Date:	APRIL 5, 2001
Name:	WILLIAM RUEHLE
Title:	WIWIAM RUENTE VICE PRESIDENT & CFO MELLING ME
Signatu	ire: ///tunuu

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Juin-Hwey Chen

Appl. No. To be assigned

Filed: HEREWITH

Noise Feedback Coding Method

and System for Performing **General Searching of Vector Quantization Codevectors Used** for Coding a Speech Signal

Confirmation No. N/A

Art Unit: To be assigned

Examiner: To be assigned

Atty. Docket: 1875.0250003/RES/AJF

Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents Washington, D.C. 20231

Sir:

For:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Albert J. Fasulo, II

Attorney for Applicant Registration No. 43,607

Date: April 11, 2001

1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 (202) 371-2600 RES/AJF:vrb

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Approved for use through 10/31/2002. OMB 0651-0032 of Trademark Office: U.S. DEPARTMENT OF COMMERCE finformation unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$) 822.00

Complete if Known					
Application Number	To be assigned				
Filing Date	HEREWITH				
First Named Inventor	Juin-Hwey CHEN				
Examiner Name	To be assigned				
Group Art Unit	To be assigned				
Attorney Docket No.	1875.0250003/RES/AJF				

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)							
The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:		TIONAL Entity		Entity					
Deposit Account Number 19-0036	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid			
Deposit Account Name Sterne, Kessler, Goldstein & Fox P.L.L.C.	105	130	205	65	Surcharge - late filing fee or oath				
│ □□	127	50	227	25	Surcharge - late provisional filing fee or cover sheet				
Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17	139	130	139	130	Non-English specification				
Applicant claims small entity status See 37 CFR 1.27		2,520	147	2,520	For filing a request for ex parte reexamina	ation			
300 57 CFR 1.27	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	r			
	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner a	ction			
☐ ☐ Credit card ☐ Money Order ☐ Other* **Tharge any deficiencies or credit any overpayments in the fees or fee Galculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.		110	215	55	Extension for reply within first month				
FEE CALCULATION	116	390	216	195	Extension for reply within second month .				
1. BASIC FILING FEE	117	890	217	445	Extension for reply within third month				
Large Entity Small Entity	118	1,390	218	695	Extension for reply within fourth month				
Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	128	1,890	228	945	Extension for reply within fifth month				
101 710 201 355 Utility filing fee <u>710.00</u>	119	310	219	155	Notice of Appeal				
106 320 206 160 Design filing fee	120	310	220	155	Filing a brief in support of an appeal				
107 490 207 245 Plant filing fee	121	270	221	135	Request for oral hearing				
108 710 208 355 Reissue filing fee	138	1,510	138	1,510	Petition to institute a public use proceeding	ng			
114 150 214 75 Provisional filing fee	140	110	240	55					
CURTOTAL (4) (C) 740 00	141 142	1,240	241	620	Petition to revive - unintentional				
SUBTOTAL (1) (\$) 710.00	142	1,240 440	242 243	220	Utility issue fee (or reissue) Design issue fee				
	143	600	243	300	Plant issue fee				
	122	130	122	130	Petitions to the Commissioner				
2. EXTRA CLAIM FEES Fee from	123	130	123	130	Petitions related to provisional application	ns			
Extra below Fee Paid	126	180	126	180	Submission of Information Disclosure Stn	nt :			
Total Claims <u>24</u> - 20** = 4		40	481	40	Recording each patent assignment per property (times number of properties)	40.00			
Multiple Dependent = <u>0.00</u>	146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))				
Large Entity Small Entity Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	149	710	249	355	For each additional invention to be exami (37 CFR 1.129(b))	ined			
103 18 203 9 Claims in excess of 20	179	710	279	355	Request for Continued Examination (RCE	Ε)			
102 80 202 40 Independent claims in excess of 3	169	900	169	900	Request for expedited examination of a design application				
104 270 204 135 Multiple dependent claim 108 80 209 40 **Reissue independent claims over original	Other fee	(specify) :			арриодион 1				
patent patent 110 18 210 9 Reissue claims in excess of 20 and over original patent	(specify) :				<u> </u>				
SUBTOTAL (2) (\$) 72.00			Filing Fee	Paid		L			
** or number previously paid, if greater, For Reissues, see above					SUBTOTAL (3) (\$) 40.00				
SUBMITTED BY					Complete (if app	licable)			
Name (Print/Type) Albert J. Fasulo, II		R	egistration	No	43,607 Telephone	202-371-2600			
Signature Owert A Food-	工				Date	April 11, 2001			